

# FIG. 1A

|      |  |      |      |      |      |
|------|--|------|------|------|------|
| 1    | GCACGAGGCCAAACAGATTTCAGATCAAGGAGAACCCAGAGTTTCAAGAAGCGCTAG    | 10   | 30   | 50   | 60   |
| 61   | TAAGTCTCTGAGATCCTTGACTAGTACATCCTCAGGGTAGGAGGAAGATGGCTTCCA    | 70   | 90   | 110  | 120  |
| 121  | GAGCATGCGGCTGCTCTATTGCTGAGCTGCCCTGGCCAAACAGAGTCCCTGGTGATA    | 130  | 150  | 170  | 180  |
| 181  | TCATCATGAGACCCAGCTGTGCTCCTGGATGGTTTACCACAAGTCCCAATTGCTATGTT  | 190  | 210  | 230  | 240  |
| 241  | ACTTCAGGAAGCTGAGGAAGTGGTCTGATGCCGAGCTCGAGTGTCAGTCTTACGGAAACG | 250  | 270  | 290  | 300  |
| 301  | GAGCCACCTGGCATCTATCCTGAGTTTAAAGGAAGCCAGCACCATAGCAGAGTACATAA  | 310  | 330  | 350  | 360  |
| 361  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 370  | 390  | 410  | 420  |
| 421  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 430  | 450  | 470  | 480  |
| 481  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 490  | 510  | 530  | 540  |
| 541  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 550  | 570  | 590  | 600  |
| 601  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 610  | 630  | 650  | 660  |
| 661  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 670  | 690  | 710  | 720  |
| 721  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 730  | 750  | 770  | 780  |
| 781  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 790  | 810  | 830  | 840  |
| 841  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 850  | 870  | 890  | 900  |
| 901  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 910  | 930  | 950  | 960  |
| 961  | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 970  | 990  | 1010 | 1020 |
| 1021 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1030 | 1050 | 1070 | 1080 |
| 1081 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1090 | 1110 | 1130 | 1140 |
| 1141 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1150 | 1170 | 1190 | 1200 |
| 1201 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1210 | 1230 | 1250 | 1260 |
| 1261 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1270 | 1290 | 1310 | 1320 |
| 1321 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1330 | 1350 | 1370 | 1380 |
| 1381 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1390 | 1410 | 1430 | 1440 |
| 1441 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1450 | 1470 | 1490 | 1500 |
| 1501 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1510 | 1530 | 1550 | 1560 |
| 1561 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1570 | 1590 | 1610 | 1620 |
| 1621 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1630 | 1650 | 1670 | 1680 |
| 1681 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1690 | 1710 | 1730 | 1740 |
| 1741 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1750 | 1770 | 1790 | 1800 |
| 1801 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1810 | 1830 | 1850 | 1860 |
| 1861 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1870 | 1890 | 1910 | 1920 |
| 1921 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1930 | 1950 | 1970 | 1980 |
| 1981 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 1990 | 2010 | 2030 | 2040 |
| 2041 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2050 | 2070 | 2090 | 2100 |
| 2101 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2110 | 2130 | 2150 | 2160 |
| 2161 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2170 | 2190 | 2210 | 2220 |
| 2221 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2230 | 2250 | 2270 | 2280 |
| 2281 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2290 | 2310 | 2330 | 2340 |
| 2341 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2350 | 2370 | 2390 | 2400 |
| 2401 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2410 | 2430 | 2450 | 2460 |
| 2461 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2470 | 2490 | 2510 | 2520 |
| 2521 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2530 | 2550 | 2570 | 2580 |
| 2581 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2590 | 2610 | 2630 | 2640 |
| 2641 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2650 | 2670 | 2690 | 2700 |
| 2701 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2710 | 2730 | 2750 | 2760 |
| 2761 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2770 | 2790 | 2810 | 2820 |
| 2821 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2830 | 2850 | 2870 | 2880 |
| 2881 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2890 | 2910 | 2930 | 2940 |
| 2941 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 2950 | 2970 | 2990 | 3000 |
| 3001 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3010 | 3030 | 3050 | 3060 |
| 3061 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3070 | 3090 | 3110 | 3120 |
| 3121 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3130 | 3150 | 3170 | 3180 |
| 3181 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3190 | 3210 | 3230 | 3240 |
| 3241 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3250 | 3270 | 3290 | 3300 |
| 3301 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3310 | 3330 | 3350 | 3360 |
| 3361 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3370 | 3390 | 3410 | 3420 |
| 3421 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3430 | 3450 | 3470 | 3480 |
| 3481 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3490 | 3510 | 3530 | 3540 |
| 3541 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3550 | 3570 | 3590 | 3600 |
| 3601 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3610 | 3630 | 3650 | 3660 |
| 3661 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3670 | 3690 | 3710 | 3720 |
| 3721 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3730 | 3750 | 3770 | 3780 |
| 3781 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3790 | 3810 | 3830 | 3840 |
| 3841 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3850 | 3870 | 3890 | 3900 |
| 3901 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3910 | 3930 | 3950 | 3960 |
| 3961 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 3970 | 3990 | 4010 | 4020 |
| 4021 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4030 | 4050 | 4070 | 4080 |
| 4081 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4090 | 4110 | 4130 | 4140 |
| 4141 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4150 | 4170 | 4190 | 4200 |
| 4201 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4210 | 4230 | 4250 | 4260 |
| 4261 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4270 | 4290 | 4310 | 4320 |
| 4321 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4330 | 4350 | 4370 | 4380 |
| 4381 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4390 | 4410 | 4430 | 4440 |
| 4441 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4450 | 4470 | 4490 | 4500 |
| 4501 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4510 | 4530 | 4550 | 4560 |
| 4561 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4570 | 4590 | 4610 | 4620 |
| 4621 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4630 | 4650 | 4670 | 4680 |
| 4681 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4690 | 4710 | 4730 | 4740 |
| 4741 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4750 | 4770 | 4790 | 4800 |
| 4801 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4810 | 4830 | 4850 | 4860 |
| 4861 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4870 | 4890 | 4910 | 4920 |
| 4921 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4930 | 4950 | 4970 | 4980 |
| 4981 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 4990 | 5010 | 5030 | 5040 |
| 5041 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5050 | 5070 | 5090 | 5100 |
| 5101 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5110 | 5130 | 5150 | 5160 |
| 5161 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5170 | 5190 | 5210 | 5220 |
| 5221 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5230 | 5250 | 5270 | 5280 |
| 5281 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5290 | 5310 | 5330 | 5340 |
| 5341 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5350 | 5370 | 5390 | 5400 |
| 5401 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5410 | 5430 | 5450 | 5460 |
| 5461 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5470 | 5490 | 5510 | 5520 |
| 5521 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5530 | 5550 | 5570 | 5580 |
| 5581 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5590 | 5610 | 5630 | 5640 |
| 5641 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5650 | 5670 | 5690 | 5700 |
| 5701 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5710 | 5730 | 5750 | 5760 |
| 5761 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5770 | 5790 | 5810 | 5820 |
| 5821 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5830 | 5850 | 5870 | 5880 |
| 5881 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5890 | 5910 | 5930 | 5940 |
| 5941 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 5950 | 5970 | 5990 | 6000 |
| 6001 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6010 | 6030 | 6050 | 6060 |
| 6061 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6070 | 6090 | 6110 | 6120 |
| 6121 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6130 | 6150 | 6170 | 6180 |
| 6181 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6190 | 6210 | 6230 | 6240 |
| 6241 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6250 | 6270 | 6290 | 6300 |
| 6301 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6310 | 6330 | 6350 | 6360 |
| 6361 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6370 | 6390 | 6410 | 6420 |
| 6421 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6430 | 6450 | 6470 | 6480 |
| 6481 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6490 | 6510 | 6530 | 6540 |
| 6541 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6550 | 6570 | 6590 | 6600 |
| 6601 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6610 | 6630 | 6650 | 6660 |
| 6661 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6670 | 6690 | 6710 | 6720 |
| 6721 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6730 | 6750 | 6770 | 6780 |
| 6781 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6790 | 6810 | 6830 | 6840 |
| 6841 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6850 | 6870 | 6890 | 6900 |
| 6901 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6910 | 6930 | 6950 | 6960 |
| 6961 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 6970 | 6990 | 7010 | 7020 |
| 7021 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7030 | 7050 | 7070 | 7080 |
| 7081 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7090 | 7110 | 7130 | 7140 |
| 7141 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7150 | 7170 | 7190 | 7200 |
| 7201 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7210 | 7230 | 7250 | 7260 |
| 7261 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7270 | 7290 | 7310 | 7320 |
| 7321 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7330 | 7350 | 7370 | 7380 |
| 7381 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7390 | 7410 | 7430 | 7440 |
| 7441 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7450 | 7470 | 7490 | 7500 |
| 7501 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7510 | 7530 | 7550 | 7560 |
| 7561 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7570 | 7590 | 7610 | 7620 |
| 7621 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7630 | 7650 | 7670 | 7680 |
| 7681 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7690 | 7710 | 7730 | 7740 |
| 7741 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7750 | 7770 | 7790 | 7800 |
| 7801 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7810 | 7830 | 7850 | 7860 |
| 7861 | GTGGTATCAGAGAAGCCAGCCGATATGATTGGCTGCACGACCCACAGAAAGAGGACG    | 7870 | 7890 | 7910 | 7    |

FIG. 1B

|     |   |     |     |     |
|-----|---|-----|-----|-----|
|     | 430   | 450 | 470 |     |
| 421 | AGTGGCAGTGGATTGATGGGGCCATGTATCTGTACAGATCCTGTCTGGCAAGTCCATGG   |     |     | 480 |
| 105 | W Q W I D G A M Y L Y R S W S G K S M G                       |     |     | 124 |
|     | 490   | 510 | 530 |     |
| 481 | GTGGACAAGCACTGTGCTGAGATGAGCTCCAATAACAACCTTTTAACTTGGAGCAGCA    |     |     | 540 |
| 125 | G N K H C A E M S S N N N F L T W S S N                       |     |     | 144 |
|     | 550   | 570 | 590 |     |
| 541 | ACGAATGCAACAAGCGCCAAACACTTCCTGTGCAAGTACCGACCATAGAGCAAGAATCAAG |     |     | 600 |
| 145 | E C N K R Q H F L C K Y R P *                                 |     |     | 164 |
|     | 610   | 630 | 650 |     |
| 601 | ATTCTGCTAACTCCTGCACAGCCCCGTCTCTTCTCTTCTGCTAGCCTGGCTAAATCTGC   |     |     | 660 |
|     | 670   | 690 | 710 |     |
| 661 | TCATTATTTCAGAGGGGAACCTAGCAAACTAAGAGTGATAAGGGCCCTACTACACTGGC   |     |     | 720 |
|     | 730   | 750 | 770 |     |
| 721 | TTTTTAGGCTTAGAGACAGAACTTTAGCAATTGGCCAGTAGTGGCTTCTAGCTCTAAA    |     |     | 780 |
|     | 790   | 810 | 830 |     |
| 781 | TGTTGGCCCCGCCATCCCTTTCACAGATATCCTTCTTCCCTCCTCCCTGTCTTGCTG     |     |     | 840 |

FIG. 1C

|      |   |      |      |      |      |
|------|---|------|------|------|------|
| 841  | TCTCGAGCAGTCTAGAAGAGTGCATCTCCAGCCTATGAACACAGCTGGGTCTTTGGCCATA | 850  | 870  | 890  | 900  |
| 901  | AGAAGTAAAGATTGGAAGACAGAAGGAAGAACTCAGGAGTAAGCTTCTAGACCCCTTCA   | 910  | 930  | 950  | 960  |
| 961  | GCTTCTACACCCCTTCTGCCCTCTCTCCATTGCCCTGCACCCCCAGCCCACTCACTCC    | 970  | 990  | 1010 | 1020 |
| 1021 | TGCTTGTTTTTCCTTTGGCCATAGGAAGTTTACCAGTAGAATCCTTGCTAGGTTGATGT   | 1030 | 1050 | 1070 | 1080 |
| 1081 | GGGCCATACATTCTTTAATAAACCATTGTGTAC                             | 1090 | 1110 | 1114 |      |